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File: USPT

Aug 31, 1999

US-PAT-NO: 5945409

DOCUMENT-IDENTIFIER: US 5945409 A

TITLE: Topical moisturizing composition and method

DATE-ISSUED: August 31, 1999

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Crandall; Wilson Trafton	Ft. Defiance	VA		

US-CL-CURRENT: [514/78](#); [514/159](#), [514/552](#), [514/847](#), [514/861](#), [514/936](#), [514/937](#), [514/944](#)

CLAIMS:

I claim:

1. A method of treating keratinous tissue of a human or animal comprising the step of topically applying to the keratinous tissue a composition comprising water dispersible lecithin.
2. A method of treating keratinous tissue of a human or animal comprising the step of topically applying to the keratinous tissue a composition comprising lecithin, a solvent, and water.
3. The method of claim 2, wherein the solvent is isopropyl palmitate, isopropyl myristate, ethyl myristate, 2-octyldodecanol or ethanol.
4. The method of claim 1, further comprising poloxamer 407.
5. The method of claim 1, further comprising N-decylmethyl sulfoxide.
6. The method of claim 1, further comprising compositions selected from the group consisting of antimicrobial, antibacterial, antifungal, antiprotozoal, and antiviral agents.
7. The method of claim 1, further comprising glucosamine or glucosamine sulfate.
8. The method of claim 1, further comprising molecules selected from the group consisting of alpha hydroxy compounds, glycolic acid, citric acid, and lactic acid.
9. The method of claim 1, further comprising molecules selected from the group consisting of glycerol, urea, ceramides, squalene, elastin, salicylic acid, dimethicone, lanolin, chondroitin sulfate, hyaluronic acid, collagen, and

collagen fragments.

10. The method of claim 1, wherein the composition is in a form selected from the group consisting of lotions, salves, creams, liposomes, sprays, micelles, and gels.

11. A method of treating psoriasis comprising the step of topically applying to the skin of the human or animal the composition of claim 1.

12. A method of treating psoriasis comprising the step of topically applying to the skin of the human or animal the composition of claim 2.

13. A method of treating eczema comprising the step of topically applying to the skin of the human or animal the composition of claim 1.

14. A method of treating eczema comprising the step of topically applying to the skin of the human or animal the composition of claim 2.

15. The method of claim 1, further comprising molecules selected from the group consisting of elastin, elastin fragments, elastin-glycolic acid, collagen, collagen fragments, yeast extracts, skin respiratory factor, glucosamine, glucosamine sulfate, hyaluronic acid, hyaluronate, chondroitin sulfate, cholic acid, deoxycholic acid, ginseng extract, aloe vera powder, aloe vera oil, RNA and DNA fragments, ascorbyl palmitate, ascorbic acid, retinal palmitate, 7-dehydroxycholesterol, vitamin E tocopherol, vitamin E lineolate, panthenyl ethyl ester, glycerol ceramides, glycogen, DL-pyroglutamic acid, urea, sodium lactate, lactate, glycerin, sorbitol, oils of borage, evening primrose, black currant, almond and cannola, vanishing cream, cholesterol, flavenoids, witch hazel, camomile, parsley, hibiscus, capric and caprylic triglycerides, amino acids, allantoin, sodium, calcium, potassium, phosphate, chloride, sodium lactate, alpha hydroxy acids, cocoa butter, coconut oil, jojoba oil, safflower oil, wheat germ oil, sesame oil, selachyl alcohol, shark oil, cerebrosides, proanthocyanidin, farnestol, candelilla, carnuba wax, vitamin E nicotinate, manganese ascorbate, zinc, oleyl alcohol, polysorbate 80, spermaceti, glycerol monostearate, beeswax, silicone oil, paraffin wax, ozokerit E, and PEG 75 lanolin.

16. The method of claim 2, further comprising molecules selected from the group consisting of elastin, elastin fragments, elastin-glycolic acid, collagen, collagen fragments, yeast extracts, skin respiratory factor, glucosamine, glucosamine sulfate, hyaluronic acid, hyaluronate, chondroitin sulfate, cholic acid, deoxycholic acid, ginseng extract, aloe vera powder, aloe vera oil, RNA and DNA fragments, ascorbyl palmitate, ascorbic acid, retinal palmitate, 7-dehydroxycholesterol, vitamin E tocopherol, vitamin E lineolate, panthenyl ethyl ester, glycerol ceramides, glycogen, DL-pyroglutamic acid, urea, sodium lactate, lactate, glycerin, sorbitol, oils of borage, evening primrose, black currant, almond and cannola, vanishing cream, cholesterol, flavenoids, witch hazel, camomile, parsley, hibiscus, capric and caprylic triglycerides, amino acids, allantoin, sodium, calcium, potassium, phosphate, chloride, sodium lactate, alpha hydroxy acids, cocoa butter, coconut oil, jojoba oil, safflower oil, wheat germ oil, sesame oil, selachyl alcohol, shark oil, cerebrosides, proanthocyanidin, farnestol, candelilla, carnuba wax, vitamin E nicotinate, manganese ascorbate, zinc, oleyl alcohol, polysorbate 80, spermaceti, glycerol monostearate, beeswax, silicone oil, paraffin wax, ozokerit E, and PEG 75 lanolin.

17. A method of treating ichthyosis comprising the step of topically applying to the skin of the human or animal the composition of claim 1.

18. A method of treating ichthyosis comprising the step of topically applying to the skin of the human or animal the composition of claim 2.

19. The method of claim 1, wherein the composition further comprises water, pyroglutamic acid, urea, glucosamine, glucosamine sulfate, manganese ascorbate, poloxamer, panthenyl ethyl ester, glycerol, aloe vera oil, almond oil, vanishing cream, squalene, retinal palmitate, dehydrocholesterol, ascorbyl palmitate, vitamin E tocopherol and proanthocyanidin.

20. The method of claim 2, wherein the solvent is ethanol, and the composition further comprises poloxamer, glucosamine, glucosamine sulfate, allantoin, ammonium lactate, pyroglutamic acid, vanishing cream, cholesterol, aloe vera oil, glycerol, safflower oil, borage oil, retinal palmitate, dehydrocholesterol, ascorbyl palmitate, vitamin E tocopherol and proanthocyanidin.

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L6: Entry 17 of 33

File: USPT

Apr 21, 1998

DOCUMENT-IDENTIFIER: US 5741513 A

TITLE: Alcoholic aqueous gel-like phospholipid composition, its use and topical preparations containing it

Detailed Description Text (18):

The entire amount of the phospholipid gel (50 g) obtained in Example 1 is mixed with 42 g of 0.2 molar phosphate buffer solution of pH 7.4 and stirred for 4 min. The resulting highly fluid dispersion is mixed with 8 g of ethanol and additionally stirred for a further minute to give the ready-to-use final product. The proportions of phospholipid concentrate:ethanol:aqueous solution are 20.96:16:73.04 (phospholipid:ethanol:water are 10:16:74). The mean particle size, measured by the laser light-scattering method, is 204 nm (.+- .20%).

Detailed Description Text (20):

The entire amount of the phospholipid gel (50 g) obtained in Example 2 is mixed with 84 g of tap water, stirred for 4 min. and 16 g of ethanol are then added. After a further stirring time of 1 min., a liposomal solution having an ethanol content of 16% by weight and 10.48% by weight of phospholipid concentrate (corresponding to 10% by weight of phospholipids) and a mean particle size of 194 nm (.+- .20%) is obtained as the final product. In spite of the use of tap water, which is usually contaminated with microorganisms and salts, the product contains less than 100 microorganisms per gram.

Detailed Description Text (24):

The phospholipid gel obtained in Example 4 is mixed with stirring with 37 g of 0.2 molar phosphate buffer solution, stirred for 4 min., 8 g of 2-propanol are added and the mixture is additionally stirred for a further 1 min. The mean particle size of the vesicles in the liposomal solution is 187 nm (.+- .20%).

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